

UNIVERSAL COUPLING/UNIVERSAL JOINT

BACKGROUND OF THE INVENTION

The background of the invention is the same as in reference patent no. 3798925

SUMMARY OF THE INVENTION

The summary of the invention is the same as in reference patent no. 3798925 except as follows.

BRIEF DESCRIPTION OF THE DRAWING

Note:

Please note that all references to arcuate surfaces have been changed to ball segment and or circular segments.

Figure 1 is the drawing only of the changed improvements. All other features or characteristics are dependent upon the particular usage requirements.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring figure 1 drawing:

10 housing has within it outer apposing circular segment members 16. A cage member having opposed circular segment members whose surfaces are 27 and 35, and one core member having opposed ball segments 30 and opposing circular segments 31 and 32.

What I claim is:

1. A universal coupling/universal joint comprising, in combination, cage means including a cage housing having a rectangular interior configuration, two sets of outer bearing means within said cage means, each of said outer bearing means having opposed first circular segment bearing surfaces, two sets of central means within said cage means, each of said central segment means having apposed first circular segment journal surfaces in complementary sliding relationship with one set of said apposed first circular segment bearing surfaces, each of said central means defining second opposed circular segment inner surfaces perpendicular to said opposed first circular segment journal surfaces, two set of core means mounted within said sets of central means, each of said core means having second ball segment and circular segment journal surfaces complementary, sliding engagement with said second, opposed circular segment bearing surfaces of one set of said central means, and an axial bore defined by each one of said core means for the reception of a driven shaft.

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